



PTO/SB/O&A (10-01)
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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known			
		Application Number	10/731,448		
		Filing Date	12/09/03		
		First Named Inventor	Johnson, et al		
		Art Unit	1625		
		Examiner Name	Aulakh, Charanjit		
Sheet	1	of	10	Attorney Docket Number	600 120DIV 5

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.†	Document Number Number-Kind Code* (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
CA		US-4,096,341	6/20/78	Frazer	
CA		US-4,695,649	9/22/87	Magami et al	
CA		US-4,769,097	04/19/88	Chandraratna	
CA		US-4,740,519	04/26/88	B. Shroot, et al	
CA		US-4,810,804	03/07/89	Chandraratna	
CA		US-4,826,969	05/02/89	Maignan et al.	
CA		US-4,855,320	08/08/89	Chatterjee et al.	
CA		US-4,895,868	01/23/90	Chandraratna	
CA		US-4,980,369	12/25/90	Chandraratna	
CA		US-4,992,468	02/12/91	Chandraratna	
CA		US-5,006,550	04/09/91	Chandraratna	
CA		US-5,013,744	05/07/91	Chandraratna	
CA		US-5,015,658	05/14/91	Chandraratna	
CA		US-5,023,341	06/11/91	Chandraratna	
CA		US-5,045,551	09/03/91	Chandraratna	
CA		US-5,053,523	10/01/91	Chandraratna	
CA		US-5,068,252	11/26/91	Chandraratna	
CA		US-5,089,509	02/18/92	Chandraratna	
CA		US-4,723,028	02/02/88	Shudo	
CA		US-4,326,055	04/20/82	Loeliger	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No.†	Foreign Patent Document Country Code* Number* Kind* (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
CA		0,130,795	01/19/85		
CA		1,760,34A	04/02/89		
CA		3,708,060	09/24/87		
CA		0,284,288	09/28/88		
CA		0,350,846	07/10/89		
CA		0,272,921	06/29/88		
CA		91/16051	10/31/91		
CA		85/00806	02/28/85		
CA		85/04652	10/24/85		
CA		0,098,591	01/18/84		

Examiner Signature	AULAKH	Date Considered	8-28-89
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

† Applicant's unique citation designation number (optional). * See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

* Enter Office that issued the document, by the two-letter code (WIPO Standard ST 3). † For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ‡ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. § Applicant is to place a check mark here if English language Translation is attached.

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				Group Art Unit	1625
				Examiner Name	Aulakh, Charanjit
Sheet	2	of	10	Attorney Docket Number	600 120DIV 5

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
CA		A General Synthesis of Terminal and Internal Arylalkynes by the Palladium-Catalyzed Reaction of Alkynylzinc Reagents with Aryl Halides by Anthony O. King and Ei-ichi, Negishi.	<input type="checkbox"/>
CA		Conversion of Methyl Ketones into Terminal Acetylenes and (E)-Tri-substituted Olefins of Terpenoid Origin by Ei-ichi, et al., <u>J. Org. Chem.</u> , (1980) 45/12:p.2526.	<input type="checkbox"/>
CA		Sporn et al, in <u>J. Amer. Acad. Derm.</u> , (1986) 15:756-765	<input type="checkbox"/>
CA		"A Convenient Synthesis of Ethynylarenes and Diethynylarenes" by S. Takahashi et al. <u>Synthesis</u> (1980) p.627-630.	<input type="checkbox"/>
CA		Shudo et al. in <u>Chem. Phar. Bull.</u> , (1985) 33: 404-407	<input type="checkbox"/>
CA		Chemistry and Biology of Synthetic Retinoids by Marcia I. Dawson and William H. Okamura, published by CRC Press Inc., 1990, p.334-335,354.	<input type="checkbox"/>
CA		Synthesis of 2,2'-Diacyl-1,1' Biaryls, Regiocontrolled Protection of...by Mervic et al, <u>J. Org. Chem.</u> , (1980) No. 45, p.4720-4725.	<input type="checkbox"/>
CA		A Dopamine Receptor Model and Its Application in the Design of a New Class of Rigid Pyrrolo[2,3-g]isoquinoline Antipsychotics. Gary L. Olson et al. American Chemical Socioto, (1981) 24/9:1026-1031.	<input type="checkbox"/>
CA		6,2,3 Conformational Restriction, Williams, et al., <u>Drug Discovery and Development</u> , The Humana Press, (1987) pp.54-55.	<input type="checkbox"/>
CA		Davis et al. <u>J. Organometallic Chem</u> (1990) 387:381-390.	<input type="checkbox"/>

Examiner Signature	AULAKH	Date Considered	8-28-84
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Substitute for form 1448A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/731,448
		Filing Date	12/09/03
		First Named Inventor	Johnson, et al.
		Art Unit	1625
		Examiner Name	Aulakh, Charanjit
Sheet	3	of	10
		Attorney Docket Number	600 120DIV 5

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.†	Document Number	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code* (if known)	MM-DD-YYYY		
CA		US-5,130,335	07/14/92	Chandraratna	
CA		US-5,134,159	07/28/92	Chandraratna	
CA		US-4,391,731	07/05/93	Boiler et al	
CA		US-5,037,825	08/06/91	Chandraratna	
CA		US-5,162,546	11/10/92	Chandraratna	
CA		US-5,175,185	12/29/92	Chandraratna	
CA		US-5,183,827	02/02/93	Chandraratna	
CA		US-5,202,471	04/13/93	Chandraratna	
CA		US-5,231,113	07/27/93	Chandraratna	
CA		US-5,234,926	08/10/93	Chandraratna	
CA		US-5,264,456	11/23/93	Chandraratna	
CA		US-5,264,578	11/23/93	Chandraratna	
CA		US-5,248,777	09/28/93	Chandraratna	
CA		US-5,272,156	12/21/93	Chandraratna	
CA		US-4,927,947	05/22/90	Chandraratna	
CA		US-5,278,318	01/11/94	Chandraratna	
CA		US-5,324,744	06/28/94	Chandraratna	
CA		US-5,324,840	06/28/94	Chandraratna	
CA		US-5,326,898	07/05/94	Chandraratna	
CA		US-4,826,984	05/02/89	Berlin et al	

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Examiner Initials*	Cite No.†	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T*
		Country Code* Number* Kind* (if known)	MM-DD-YYYY			
CA		0,176,032	04/02/86			
CA		0,176,033	04/02/86			
CA		0,253,302	01/20/88			
CA		0,303,915	02/22/89			
CA		0,315,071	05/19/89			
CA		2,190,378	11/18/87			
CA		3,316,932	11/17/83			
CA		3,524,199	01/16/86			
CA		3,715,955	11/26/87			
CA		92/06948	04/30/92			

Examiner Signature	AULAKH	Date Considered	6-28-04
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* Enter Office that issued the document, by the two-letter code (WIPO Standard ST 3). * For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. * Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. * Applicant is to place a check mark here if English language Translation is attached.

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				Group Art Unit	1625
				Examiner Name	Aulakh, Charanjit
Sheet	4	of	10	Attorney Docket Number	600 120DIV 5

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
CA		Kagechika et al, in <u>J. Med. Chem.</u> , (1988) 31:2181-2192.	<input type="checkbox"/>
CA		"Effects of 13-Cis-Retinoic Acid, All Trans-Retinoic Acid, and Acitretin on the Proliferation, Lipid Synthesis and Keratin Expression of Cultured Human Sebocytes in Vitro" C.C. Zouboulis, <u>The Journal of Investigative Dermatology</u> , (1991) 96/5:792-797.	<input type="checkbox"/>
CA		"Organ Maintenance of Human Sebaceous Glands: in Vitro Effects of 13-Cis Retinoic Acid and Testosterone" John Ridden, et al., <u>Journal of Cell Science</u> (1990) 95:125-136.	<input type="checkbox"/>
CA		"Characterization of Human Sebaceous Cells in Vitro" Thomas I. Doran, et al, <u>The Journal of Investigative Dermatology</u> , (1991) 96/3.	<input type="checkbox"/>
CA		"Synthesis and Evaluation of Stilbene and Dihydrostilbene Derivateives as Potential Anticancer Agents That Inhibit Tubulin Polymerization" by Cushman, Mark et al.	<input type="checkbox"/>
CA		<u>J. Med. Chem.</u> , (1991), 34:2579-2588.	<input type="checkbox"/>
CA		"Synthesis and Evaluation of New Pretocin Tyrosine Kinase Inhibitors, Part 1, Pyridine-Containing Stilbenes and Amides" by Cushman, Mark et al. <u>Bioorganic & Medicinal Chemistry Letters</u> , (1991) 1/4:211-214.	<input type="checkbox"/>
CA		"Di- and Tri-methoxystyryl Derivatives of Heterocyclic Nitrogen Compounds" by Bahner, C.T. et al. <u>Arzneim-Forsch./ Drug Res</u> , (1981) 31 (I), Nr.3.	<input type="checkbox"/>
CA		"Retinobenzoic acids, 3, Structure-Activity Relationships of Retinoidal Azobenzene-4-Carboxylic Acids and Stilbene-4-Carboxylic Acids" by H. Kagechika et al., <u>Journal of Medicinal Chemistry</u> , (1989), 32:1098-1108.	<input type="checkbox"/>
CA		Eyrolles, L. et al "Retinoid Antagonists: Molecular Design Based on the Ligand Superfamily Concept" <u>Med. Chem. Res</u> (1992) 2: 361-367.	<input type="checkbox"/>

Examiner Signature	AULAKH	Date Considered	6-28-04
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet **5** of **10****Complete if Known**

Application Number	10/731,448
Filing Date	12/09/03
First Named Inventor	Johnson, et al
Art Unit	1625
Examiner Name	Aulakh, Charanjit
Attorney Docket Number	600 120DIV 5

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.†	Document Number Number-Kind Code* (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
CA		US-5,344,959	09/06/94	Chandraratna	
CA		US-5,346,895	09/13/94	Chandraratna	
CA		US-5,346,915	09/13/94	Chandraratna	
CA		US-5,348,972	09/20/94	Chandraratna	
CA		US-5,348,975	09/20/94	Chandraratna	
CA		US-5,349,105	09/20/94	Chandraratna	
CA		US-5,354,752	10/11/94	Chandraratna	
CA		US-5,380,877	01/10/95	Chandraratna	
CA		US-5,391,753	02/21/95	Chandraratna	
CA		US-5,399,561	03/21/95	Chandraratna	
CA		US-5,399,586	03/21/95	Davies et al	
CA		US-5,407,937	04/18/95	Chandraratna	
CA		US-5,414,007	05/09/95	Chandraratna	
CA		US-5,426,118	06/20/95	Chandraratna	
CA		US 5,434,173-	07/18/95	Chandraratna	
CA		US-5,451,605	09/19/95	Chandraratna et al	
CA		US-5,455,265	10/03/95	Chandraratna	
CA		US-5,468,879	11/21/95	Chandraratna	
CA		US-5,470,999	11/28/95	Chandraratna	
CA		US-5,475,022	12/12/95	Chandraratna	

FOREIGN PATENT DOCUMENTS

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CA		1,70,05A				
CA		3,602,473	07/30/87			
CA		0,661,259	05/07/95			
CA		93/21146	10/28/93			
CA		0,284,261	09/28/88			
CA		0,303,186	02/15/88			
CA		0,412,387	02/13/91			
CA		0,617,020	09/28/94			
CA		0,661,258	07/05/95			
CA		0,661,261	07/05/95			

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			Examiner Name	Aulakh, Charanjit	
Sheet	6	of	10	Attorney Docket Number	600 120DIV 5

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	2
CA		Liu, S.S. et al. "Systemic Pharmacokinetics of Acetylenic Retinoids in Rats," <u>Drug Metabism and Disposition</u> , (1990) 18/6: 1071-1077.	<input type="checkbox"/>
CA		CHEMICAL ABSTRACTS, vol. 122, no. 13, 27 March 1995 abstract no. 151372m, (S.KAKU et al.)	<input type="checkbox"/>
CA		CHEMICAL ABSTRACTS, vol. 117, no.13,28 September 1992 abstract no. 124091 j, (S.SUN et al.)	<input type="checkbox"/>
CA		EUROPEAN JOURNAL OF BIOCHEMISTRY, vol.212, no. 1, 1993, BERLIN, pages 13-26, XP000618300 (S. KEIDEL et al.)	<input type="checkbox"/>
CA		JOURNAL OF MEDICAL CHEMISTRY, vol. 39, no. 16,2 August 1996, pages 3035-3038, MIN TENG ET AL.	<input type="checkbox"/>
CA		JOURNAL OF MEDICAL CHEMISTRY, vol. 37, no. 10,13 May 1994, pages 1508-1517, LAURENCE EYROLLES	<input type="checkbox"/>
CA		BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMUNICATIONS, vol.155 no. 1, 1988, pages 503-508.	<input type="checkbox"/>
CA		CHEMICAL ABSTRACTS, vol. 121, no.9, 1994.	<input type="checkbox"/>
CA		DATABASE WPI, Section CH, Week 9416, Derwent Publications Ltd. London, GB; Class B05, AN 94-128759 and J{ 6078266A, see English language abstract in DERWENT.	<input type="checkbox"/>
CA		JOURNAL OF MEDICINAL CHEMISTRY, VOL. 38, NO. 16, 4 August, 1995, pages 3163-73.	<input type="checkbox"/>

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Sheet **7** of **10**

Complete if Known

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CA		US-5,498,795	03/12/96	Song et al	
CA		US-5,514,825	05/07/96	Vuligonda et al	
CA		US-5,516,904	5/14/96	Chandraratna	
CA		US-5,534,516	07/09/96	Chandraratna	
CA		US-5,534,641	07/09/96	Song et al	
CA		US-5,546,534	08/06/96	Vuligonda et al	
CA		US-5,556,996	09/17/96	Beard et al	
CA		US-5,591,858	01/07/97	Vuligonda et al	
CA		US-5,523,457	06/04/96	Starrett, Jr. et al	
CA		US-5,559,248	09/24/96	Starrett, Jr. et al	
CA		US-5,599,967	02/04/97	Vuligonda et al	
CA		US-5,602,130	02/11/97	Chandraratna	
CA		US-5,602,135	02/11/97	Chandraratna	
CA		US-5,605,915	02/25/97	Vuligonda et al	
CA		US-5,616,597	04/01/97	Chandratana	
CA		US-5,616,712	04/01/97	Teng et al	
CA		US-5,618,836	04/08/97	Chandratana	

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CA		0,617,020	28/09/94			
CA		0,619,116	12/10/94			
CA		0,286,364	12/10/88			
CA		0,718,285	26/08/96			
CA		93/11755	24/06/93			
CA		95/04036	09/02/95			
CA		96/05165	22/02/96			
CA		93/03713	04/03/93			
CA		0,514,269	19/11/92			
CA		0,478,787	03/10/91			

Examiner
Signature

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8-28-04

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[illegible]

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No.¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
CA		Weiner, et al., "A phase I trial of topically applied trans-retinoic acid in cervical dysplasia-clinical efficacy," <u>Investigational New Drugs</u> , 4:241-244, 1996.
CA		Jones, et al., "A dose-response study of 13-cis-retinoic acid in acne vulgaris," <u>British Journal of Dermatology</u> , (1983) 108, 333-343.
CA		Fekrat, et al., "The Effect of Oral 13-cis-retinoic Acid on Retinal Redetachment after Surgical Repair in Eyes with Proliferative Vitreoretinopathy," <u>Ophthalmology</u> , vol. 102, No. 3 (March 1995), pp.412-418.
CA		Nagpal, et al., "Separation of Transactivation and AP1 Antagonism Functions of Retinoic Acid Receptor α ," <u>The Journal of Biological Chemistry</u> , 270/2(1995): 923-927.
CA		Allegretto, et al., "Transactivation Properties of Retinoic Acid and Retinoid X Receptors in Mammalian Cells and Yeast," <u>The Journal of Biological Chemistry</u> , Vol. 268, No.35 (Dec. 15, 1993), pp. 26625-26633.
CA		Gruapner, et al., "6'-Substituted Naphthalene-2-Carboxylic Acid Analogs, A New Class or Retinoic Acid Receptor Subtype-Specific Ligands," <u>Biochemical and Biophysical Communications</u> , Vol. 179, No. 3 (Sept. 30, 1991), pp.1554-1561.
CA		Moore et al., "Retinoic Acid and Interferon in Human Cancer: Mechanistic and Clinical Studies," <u>Seminars in Hematology</u> , 31/4, Suppl 5 (Oct. 1994), pp.31-37.

Examiner Signature	AVIAKH	Date Considered	8-28-89
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Substitute for form 1449A/PTO				Application Number	10/731,448
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Filing Date	12/09/03
(Use as many sheets as necessary)				First Named Inventor	Johnson, et al
				Art Unit	1625
				Examiner Name	Aulakh, Charanjit
Sheet	9	of	10	Attorney Docket Number	600 120DIV 5

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code* (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
CA		US-5,618,931	04/08/97	Beard et al.	
CA		US-5,618,943	04/08/97	Vuligolanda et al.	
CA		US-5,420,145	05/30/95	Shudo	
CA		US-5,354,776	10/11/94	Chandratana	
CA		US-4,539,154	09/03/85	Krebs	
CA		US-5,466,861	11/14/95	Dawson et al.	
CA		US-5,563,292	10/08/96	Sheh et al	
CA		US-5,648,503	07/15/97	Vuligonda et al.	
CA		US-4,923,884	05/08/90	Chandraratna	
CA		US-5,648,514	07/15/97	Johnson et al.	
CA		US-5,654,469	08/05/97	Vuligonda et al.	
CA		US-5,663,347	09/02/97	Chandraratna	
CA		US-5,663,357	09/02/97	Teng et al.	
CA		US-5,663,367	09/02/97	Vuligonda et al.	
CA		US-5,672,710	09/30/97	Beard et al.	
CA		US-5,675,024	10/07/97	Teng et al.	
CA		US-5,675,033	10/07/97	Vuligonda et al.	
CA		US-5,677,320	10/14/97	Chandraratna	
CA		US-5,677,323	10/14/97	Chandraratna	
CA		US-5,677,451	10/14/97	Chandraratna	

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Attorney Docket Number	600 120DIV 5

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AULACH

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